

MR Form 3
(Revised 1984)

File ACT/041/012

RECEIVED

SEP 26 1985

DIVISION OF OIL
GAS & MINING

ANNUAL OPERATIONS AND PROGRESS REPORT

From Month/Year January 84
to Month/Year January 85

(To be submitted for each mining operation at the end of each calendar year to the Division at this address:)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
(801) 538-5340

OPERATOR: Western Clay Company MINE NAME: Western Clay Co.
ADDRESS: P.O. Box 127, Aurora, UT 84620
PERMIT NUMBER AND DATE OF PERMIT: ML 1937
REPRESENTATIVE: Neal J. Mortensen
SECTION(S): 2 TOWNSHIP(S): 21S RANGE(S): 1W
MINERAL(S) MINED: Bentonite
STATE AND/OR FEDERAL MINERAL LEASE NUMBERS: ML1937
SPECIAL USE PERMITS AND/OR RIGHTS-OF-WAY:

Section 40-8-15 and Rule M-8 of the Utah Mined Land Reclamation Act, requires each operator to include with this report an up-dated map and plan prepared in accordance with Rule M-3, as outlined in the requirements for annual report maps in Appendix I, providing a detailed status of all mining and reclamation activities which have occurred during the past year.

The report should include:

MINING:

(a) Tabulation of acreage disturbed (by pits, roads, facilities, etc.) during the report period with illustration on a current map.

Disturbance

Acreage

Pit
Roads
Facilities
Waste Dumps
Other

no change, same as 1983

(b) Tabulation of acreage affected to date (by years).

Date by Year

Acreage (Total)

1975
1976
1977
1978
1979
1980
1981
1982
1983

no change, same as 1983

(c) Tabulation of all topsoil (new) stockpile volumes (see chart below) and date of stockpiling.

SOIL TABULATION CHART

no change, same as 1983

Area Affected (in mining sequence) (If more space is needed, please attach.)	Area			
	1	2	3	etc.
NO Change, same as 1983				

Acreage of Area

Depth of Topsoil Removal (inches)

Depth of Topsoil Replacement (inches)*

Estimate of Topsoil Volume Salvaged (yd³ or ac ft)

Volume Actually Salvaged (yd³ or ac ft)

Volume Required for Reclamation (yd³ or ac ft)

Surplus or Deficit Volume (yd³ or ac ft)

Storage Status (short- or long-term)

no change

no change

no change

no change

no change

no change

no change

Soil Tabulation Chart (continued)

Area Affected (in mining sequence)	Area			
	1	2	3	etc.
Storage Location				
Area Where Soil Has Been Used (if not stored)			no change	
Running Total (all stockpiles) (yd ³ or ac ft)			no change	
Short-term				
Long-term				

*Of previously stripped area recently reclaimed.

(d) Tabulation of all (newly removed) out-of-pit spoil volumes, date of placement and illustration on a map.

<u>Area</u>	<u>Date</u>	<u>Acreage</u>

(e) Tabulation of quantity of commodity mined.

	<u>Commodity</u>	<u>Tonnage</u>
(Mined)	bentonite	999.07
(Milled)	bentonite	999.07

(f) Description of any new construction during the report period with illustration on a map, including, but not limited to:

- Buildings and support facilities.

NONE

- Roads.

NONE

3. Diversion ditches, collector ditches, interceptor ditches, etc.

NONE

4. Culverts.

NONE

5. Sediment ponds, containment ponds.

NONE

6. Monitoring sites (vegetative, air quality, surface subsidence, surface water or ground water, etc.).

NONE

7. Topsoil stockpiles.

same

(g) Description of any environmental problem areas with a proposed plan for mitigation and illustration on a map, including, but not limited to:

1. Pit stability problems.

none

2. Subsidence.

none

3. Accidental water discharge, dam failure, etc.
none

4. Slumping, sliding or erosion.
none

5. Revegetation problem areas.
none

6. Existence and location of unsuitable (toxic) overburden.
none

RECLAMATION:

(a) Tabulation of the acreage reclaimed during the report period with illustration on a map, distinguishing between:

1. Backfilled, graded and contoured areas.

Area

Acreage

none

2. Topsoiled areas.

Area

Acreage

none

3. Seeded areas.

	<u>Area</u>	<u>Acreage</u>
none		

4. Reseeded areas (areas previously seeded, then seeded again).

	<u>Area</u>	<u>Acreage</u>
none		

(b) Tabulation of total acreage reclaimed (seeded with permanent seed mix) to date by years with illustration on an updated map:

<u>Year</u>	<u>Acreage</u>
1975	
1976	
1977	
1978	
1979	
1980	
1981	
1982	
1983	
1984	<u>none</u>

(c) Description of the reclamation procedures used during the report period, including:

1. Average depth of topsoil applied.

none

2. Type of seed (species) used for seeding during the report period.

none

3. Date of seeding during the report period.

Spring none

Fall none

4. Seeding procedures used.

(Hand broadcast or drilled or any other).
none

5. Rate of seed application.

Pounds Per Acre of Pure Live Seed (PLS) (if varied, please explain)
none

6. Type and rate of fertilizer applied.
none

7. Type and rate of mulch applied.
none

8. Rate of irrigation water applied, if any. Please describe any
type of sprinkling, or water applied (water truck, etc.).
none

9. Revegetation test plot information.

(Cover, density, productivity, etc.)
none

10. Soil analysis results.
none

(d) Description of results of previous revegetation efforts, including:
(This should be done as applicable.)

1. Types (species) of seed that have germinated and are growing.
none

2. Types (species) of seed that are not growing successfully.
none

3. Areas experiencing problems with weeds and weed types.
none

4. Significant erosional problems.
none

5. Areas of unsuitable overburden on the surface as related to
revegetation failure.
none

6. Procedures used or proposed to correct these problems.
none

7. Acreage and dates of release (upon inspection by the State) of revegetated areas.

<u>Area</u>	<u>Date</u>	<u>Acreage</u>
NONE		

8. Results of soil analysis.

NONE

(e) Summarization of the reclamation costs incurred during the report period, including itemized costs for each operation (i.e., grading, topsoil replacement, seeding, etc.) and for each type of disturbance (i.e., spoil, haul roads, facilities removal, etc.) on a per acre basis.

	<u>Acres</u>	<u>Cost/Acre</u>
1. Grading	N/A	
2. Backfilling	N/A	
3. Contouring	N/A	
4. Topsoil Replacement	n/a	
5. Seeding	n/a	
A. Seedbed Preparation	n/a	
B. Mulch	n/a	
C. Fertilizer	n/a	
D. Seed	n/a	
6. Other		

BOND INFORMATION:

- A. An updated bond estimate should be included, if required in the Division's approval of the Mining and Reclamation Plan (MRP) or if changes to the MRP have occurred, including a detailed itemization of actual/estimated reclamation costs as outlined in the RECLAMATION section above. The date of the release of revegetated areas from further responsibility for a partial bond release, if applicable, should also be included.

	<u>Amount</u>	<u>Type</u>	<u>Date Posted</u>
Present Bond	same as 1983		

Increased disturbance, if any:

none

Increased Bond Amount (attached reclamation estimate).

B. Bond release.

<u>Acres</u>	<u>Bond Amount Released</u>	<u>Date</u>
N/A		

ADDITIONAL INFORMATION:

Supply any additional information as requested by the Division related to:

- (a) Permit stipulations (status).
- (b) Other special conditions (status).

NONE

PAGE 8-A.

Location of pre & postmining
cross sections.

Second Red Knoll

Mines X
X 5359

Mine X

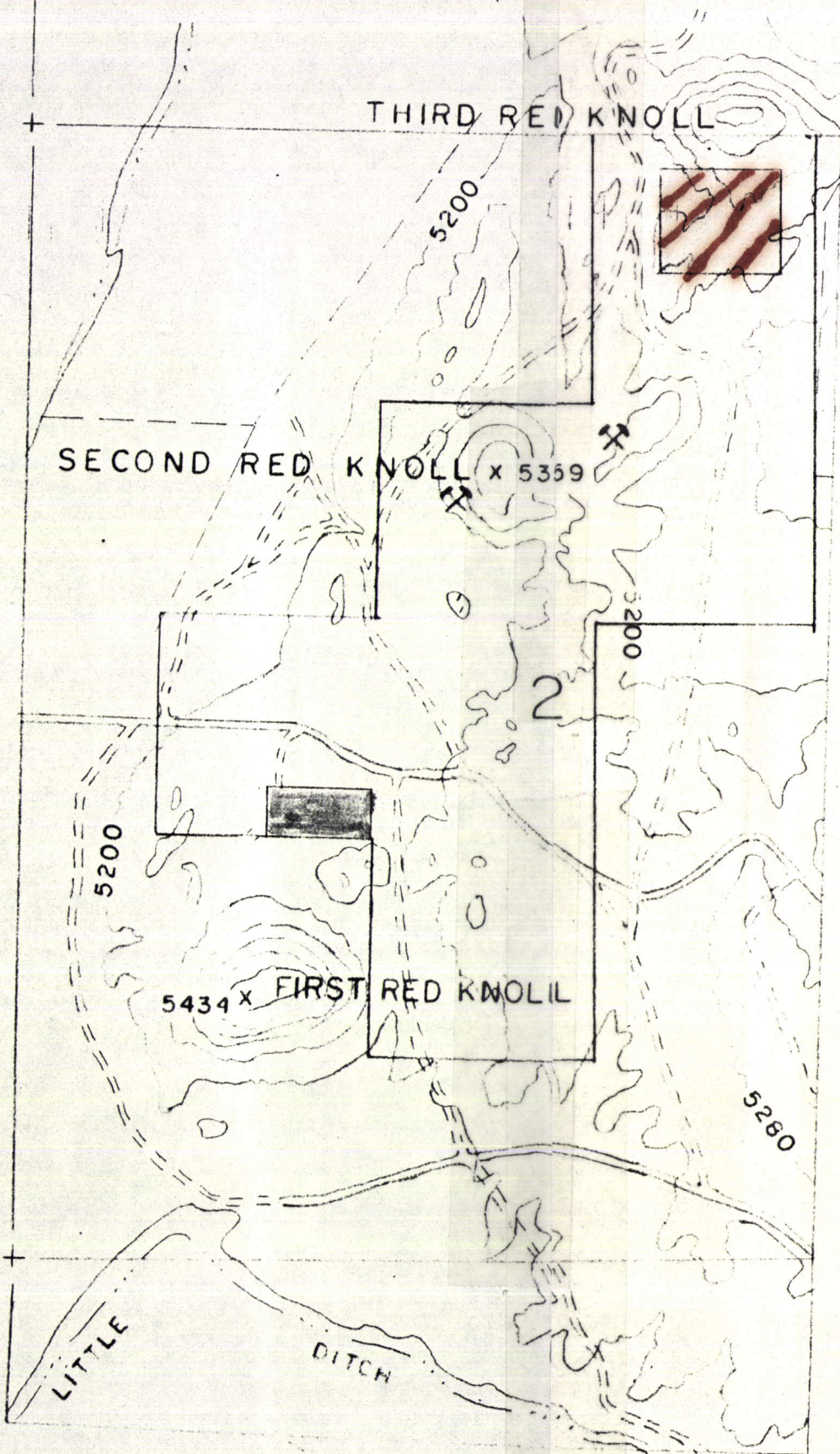
543

First Red Knoll

5280

TLE

WESTERN CLAY CO.



T. 20 S.

T. 21 S.

EXPLANATION



OLD PIT AREA



NEW PIT AREA



UTAH STATE LEASE BOUNDARY LINE



FENCE LINE

CONTOUR INTERVAL 40 FT

SCALE 1" = 754'

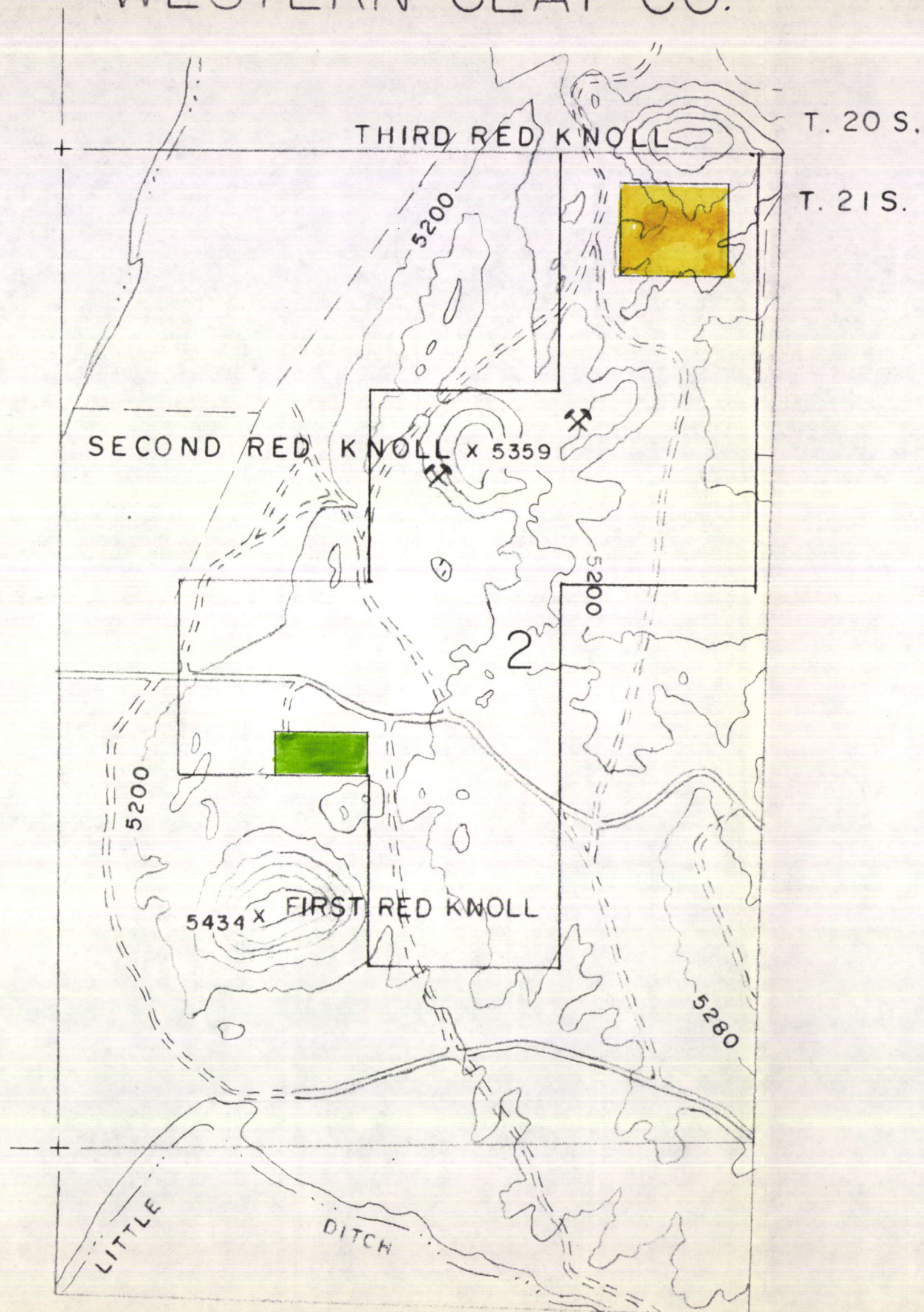
SEC 2. T21S R.1W.

WESTERN CLAY CO.

RECEIVED

JUL 16 1985

DIVISION OF OIL
GAS & MINING



EXPLANATION

OLD PIT AREA

NEW PIT AREA

UTAH STATE LEASE BOUNDARY LINE

FENCE LINE

CONTOUR INTERVAL 40 FT

SCALE 1" = 754'

SEC 2. T.21S. R.1W.